No. 21.

Caradoc and Severn Valley Field Club.

RECORD OF BARE FACTS

FOR THE YEAR 1911.

A LIST OF THE

MORE NOTEWORTHY OBSERVATIONS

MADE BY MEMBERS OF THE

CARADOC & SEVERN VALLEY FIELD CLUB

AND OTHERS.

SHREWSBURY;
ADNITT & NAUNTON, PRINTERS, THE SQUARE.

CONTRIBUTORS.

MR. W. B. ALLEN, Benthall.
,, H. G. ATTLEE, Croydon.
MISS AUDEN, Church Stretton.
MR. H. BEAMAN, Shrewsbury.
,, E. W. BOWCOCK, Wem.
"BRITISH BIRDS."
DR. W. F. BUCKLE, Shrewsbury.
MR. G. COOKE, Shrewsbury.
SIR ROLAND CORBET, Acton Reynold.
MISS M. CURRIE, Meole.
MR. R. V. DAVIES, Shrewsbury.
,, G. C. DRUCE, Oxford.
,, F. C. DUGGAN, Whitchurch.
,, J. B. DUNCAN, Bewdley.
,, J. M. ETCHES, Whitchurch.
,, J. STEELE ELLIOTT, Dowles.
"FIELD" Newspaper.
MR. H. E. FORREST, Shrewsbury.
,, H. FRANKLIN, Shrewsbury.
,, D. G. GOODWIN, Uffington.
,, A. GROOM, Oswestry.
,, G. H. CATON HAIGH, Aberia.
,, H. F. HARRIES, Shrewsbury.
,, J. W. HEATH, Shrewsbury.
,, R. W. H. HODGES, Ellesmere.
,, T. R. HORTON, Wenlock.
,, P. HUMPHREYS, Whittington.
MR. T. HUXLEY, Shrewsbury.
REV. W. S. INGRAMS, Shrewsbury.
MR. GILBERT E. JOHNSON, Shrewsbury.
,, R. W. JONES, Llandudno.
,, H. KING, Bangor.
,, J. G. LANG, Ludlow.
REV. W. LEEKE, Lydbury North.
MR. C. S MEARES, Clive.
,, J. COSMO MELVILL, Meole.
,, F. H. MILES, Bangor.
,, G. MOUNTFORD, Churchstoke.
,, G. H. MUGFORD, Shrewsbury.
"OSWESTRY ADVERTIZER"
MR G. H. PADDOCK, Wellington.
MISS F. PITT, Bridgnorth.
MR. G. POTTS, Benthall.
,, F. L. RAWLINS, Rhyl.
,, R. ROBERTS, Penybont.
,, T. RUDDY, Llangollen.
DR. E. H. O. SANKEY, Boreatton.
MR. F. RAWDON SMITH, Iron-Bridge.
,, BEVILLE STANIER, Peplow.
REV. R. STEAVENSON, Wroxeter.
MR. H. TATTON, Petton.
MAJOR TEMPLER, Shrewsbury.
CAPT. H. G. WAYNE, Bridgnorth.

The names printed in italics after occurrences recorded are those of the observers

---

The names of Meteorological observers are given in the first table under that head.

BOTANY.

Roman numerals refer to the Botanical Districts of the County as shown on the "Caradoc Map."

FLOWERING PLANTS.

We have to record, with profoundest regret, the death of the Rev. Augustin Ley, of Ross, Herefordshire, whose knowledge of the critical genera, **Rubus**, **Rosa**, and **Hieracium** were unsurpassed, and who was always ready, with characteristic kindliness, to impart his knowledge to others. His loss is well-nigh irreparable.

As before observed in the later previous "Records," our list of active workers in the field, never very large, is being sadly reduced, and unless the gaps can be filled by others, as enthusiastic as those who have passed away, the main interests for which the Caradoc & Severn Valley Club was called into being will materially suffer. Indeed, our Catalogue this year shews a considerable falling off in quantity of entries.

The principal contributors have been Mr. G. Claridge Druce, M.A., F.L.S., of Oxford, who very good naturedly at my request went through his Herbarium, and forwarded a list of what he considered the more interesting items. Many of these had been already noticed, unfortunately. Mr. Gilbert E. Johnson also sends two lists, and shorter notes have been received from Mr. J. B. Duncan, Miss Auden, Mr. H. E. Forrest, Mr. G. Potts and Mr. J. W. Heath. To all these contributers our best thanks are due.

The lists of Mosses and Hepaticæ have been kindly supplied, as on the last occasion, by Mr. J. B. Duncan, of Bewdley.

The arrangement is that of the last (10th) Edition of the London Catalogue of British Plants, 1908.

J. COSMO MELVILL.

Clematis Vitalba, *L.*
IV. Hedgerow at Meole. Noticed there for several years, but building extensions now threaten its existence. *Melvill.*

Ranunculus acris, *L.*
IV. In the neighbourhood of Shrewsbury the only varieties of the Meadow Crowfoot appear to be
(*a*) **vulgatus**, *Jord.*
(*b*) **steveni**, *Andrz.* *Melvill.*

Delphinium Ajacis, *L.*
VIII. Buildwas, railway siding, very fine plants, but few in number (1909-10). *W. B. Allen* and *J. C. Melvill.*

Berberis vulgaris, *L.*
IV. Hedgerow near Sharpstones Hill, bearing the appearance of being truly wild. *Melvill.*

Papaver Argemone, *L.*
IV. Meole Brace, in waste places. *Melvill.*

Corydalis claviculata, *D.G.*
IV. Top of Lyth Hill. *Heath.*

Fumaria Boraei, *Jord.*
(*a*) **serotina**, *Clavand.*
(*b*) **muraliformis**, *Clavand.*
IV. These rare varieties occurred again, but singly, in waste places in my grounds at Meole Hall last season. They had both been previously submitted to Mr. H. W. Pugsley, who is preparing a welcome treatise on the British species and varieties of this perplexing genus, commencing in the January number of the Journal of Botany, 1912, as a supplement. *Melvill.*

Cheiranthus Cheiri, *L.*
IV. Redhill; very likely originally planted. *Melvill.*

Cardamine flexuosa, *With.*
IV. By the Rea Brook, Meole. This plant seems pretty constant, and is, I consider, quite distinct from the much more abundant **C. hirsuta**, *L.* This last is one of the commonest garden weeds in the neighbourhood. *Melvill.*

Cochlearia Armoracia, *L.*
IV. A few plants found growing on the river bank, Rea Brook. *Melvill.*

Viola palustris, *L.*
IV. In unusual plenty by a stream passing through a small plantation attached to the North portion of Bomere Wood, near Shomere. *Melvill.*

V. odorata, *L.*
IV. Fields of Meole Hall, both purple and white flowered, but not occurring together. *Melvill.*

Polygala vulgaris, *L.*
IX. Dry Bank between Stokesay Castle and Stoke Wood, at some little elevation. Flowers unusually bright blue, plants very luxuriant. *Melvill.*

P. serpyllacea, *Weihe.*
VIII. IX. Carding Mill Valley, Church Stretton. *Melvill.*

Cerastium arvense, *Linn.*
IV. Bomere. *Heath.*

C. triviale, *Linh.*
var. **holosteoides**, *Fries?*
VIII. Carding Mill Valley. I submitted curious tufted dwarf specimens, gathered near the stream, to the late Rev. Augustin Ley, who considered that perhaps the above-name should be attached to them with slight element of doubt. *Melvill.*

Montia "verna," *Neck!*
"Wolf's Head Gate," Salop. coll. *J. Ball* in Herb. Edin. tested *G. C. Drucc.*

Hypericum calycinum, *L.*
XIII. Quatford. **Druce.*

* This and several other entries given by Mr. G. C. Druce are quoted by him as catalogued in the "Gardener's Chronicle," 1864, pp. 102-107.

H. pulchrum, *L.*
IX. Cwm Head. *Johnson.*

Malva moschata, *L.*
VI. Plowden. *Johnson.*

M. rotundifolia, *L.*
XI. Hodnet; on waste ground adjoining the Church. *Melvill.*

Geranium pratense, *L.*
XIII. Severn Bank, by Apley Hall. *Druce.*

G. lucidum, *L.*
XIII. Badger Dingle. *Duncan.*

Ononis repens, *L.*
IV. Cardiston. *Johnson.*

Trifolium dubium, *Sibth.*
IV. Shelton. *Johnson.*

Astragalus hypoglottis, *L.* [=**danicus**, *Retz.*]
XIII. Quatford. *Druce*, in litt. c.f. Gardener's Chronicle, 1864. This does not appear to have been previously recorded for the County.

Rosa spinosissima, *L.*
XIII. Quatford. *Druce.*

Poterium officinale, *A. Gray.* [=**Sanguisorba**, *L.*]
XIII. Westwood, Bridgnorth. *Miss Pitt.* comm. *G. Potts.*

Pyrus torminalis, *Ehrh.*
VII. A fine tree between Shrewsbury and Battlefield. *T. P. Blunt.*

Chrysosplenium alternifolium, *L.*
VIII. Along banks of Cound Brook below Smethcote Dingle. *Johnson.*
XIII. Badger Dingle. *Duncan.*

C. oppositifolium, *L.*
VIII. Smethcote Dingle. *Johnson.*
XIII. Badger Dingle. *Duncan.*

Ribes Grossularia, *L.*
IV. Washford Lane, Nobold. *Melvill.*

R. nigrum, *L.*
IV. Banks of Rea Brook, in the Meole Hall fields. *Melvill.*

Sedum album, *L.*
XIII. Quatford. *Druce.*

Myriophyllum verticillatum, *L.*
var. **pectinatum**, *D.C.*
XIII. Near Shifnal. coll. *Painter.* confirm. *Druce.*

Epilobium angustifolium, *L.*
IX. Cwm Head, Wistanstow. *Johnson.*

E. obscurum, *Schreb.*
X. Ludlow, 1892. *Druce.*

E. palustre, *L.*
IV. Copthorne. *Johnson.*

Astrantia major, *L.*
IX. In June, in company with Mr. W. R. Price, of Kew Harbarium, I inspected narrowly and systematically the well-known locality for this plant, at the summit of Stoke Wood, and traced it for about four hundred yards continuously save for a slight 'interregnum' of a few paces. It does not penetrate very far into the wood, though in one place it luxuriates under the shade of some oak trees, but it keeps to a fairly straight line, that being just on the fringe of the wood, on the border of the contiguous fields. It has every appearance of being native. *Melvill.*

Carum Petroselinum, *Benth & Hook.*
XIII. Bridgnorth Castle Rocks. *Melvill*; also *Druce* in litt.

Pimpinella major, *Huds.* [=**magna**].
IV. Cardiston. *Johnson.*

Cornus sanguinea, *L.*
IV. By the ford, Meole Brace. *Melvill.*

Adoxa Moschatellina, *L.*
VIII. Along the banks of Condover Brook below Smethcote Dingle. Roadside, Woolstaston, *Johnson.* Between Church Stretton and Hope Bowdler. *Miss H. M. Auden.*
XIII. Badger Dingle. *Duncan.*

Viburnum opulus, *L.*
IV. Pulley Common. *Melvill.*

Galium palustre, *L.*
var. **elongatum**, *Presl.*
IV. Water Meadows, Meole Brace, once only. *Melvill.*

Sherardia arvensis, *L.*
IX. Field above Stoke Wood, Stokesay. *Melvill.*

Dipsacus sylvestris, *Huds.*
IV. Between Kingsland and Meole Hall. *Miss Mabel Currie.* Hedgerows, the Hall fields, in same parish. *Melvill.*
XII. Linley Dingle. *Druce.*

D. pilosus, *L.*
XIII. Badger Dingle. *Duncan.*

Erigeron acre, *L.*
XIII. Bridgnorth. *Druce.*

Inula squarrosa, *Bernh.* [=**Conyza**, *D.C.*]
VI. Plowden. *Johnson.*

Petasites ovatus, *Hill.* [=**officinalis**, *Mœnch*].
IX. Marshbrook. *Johnson.*

Doronicum Pardalianches, *L.*
XIII. Woods near Bridgnorth. *Druce.*

Lactuca serriola, *L.* [=scariola, *L.*]
VIII. Buildwas, near the Railway Siding; increasing and plentiful in 1909-10. *Melvill and Allen.*

Campanula latifolia, *L.*
XII. Linley Dingle. *Druce.*

Pyrola minor, *L.*
X. Bringwood Chase, 1892. *Druce.*

Monotropa Hypopitys, *L.*
IX. Near Stokesay, 1892. *Druce.*

Gentiam Amarella, *L.*
III. Moellwydd. *E. Jones*, 1892; teste *Druce.* The rehabilitation of an ancient record.
VIII. Wenlock Edge. *Miss H. M. Auden.*

Collomia grandiflora, *Douglas.*
XII. Hampton Loade Station; an alien. *Druce*

Pulmonaria officinalis, *L.*
VII. Woods of Longner Hall. *R. F. L. Burton.* A variety with white flowers also occurs. The same variety is mentioned in Leighton Fl. p. 96, as having occurred near Buildwas, where it was found by Miss Moseley.

Nonnea rosea, *M. Bieb.*
IX. Wood behind Church Stretton. *Druce.* An alien.

Verbascum Thapsus, *L.*
VI. Plowden. *Johnson.*

Linaria Cymbalaria, *Mill.*
XIII. Badger Dingle. *Duncan.*

L. purpurea, *Mill.*
XIII. Bridgnorth. *Druce.* I likewise noticed this on the Castle rock this past summer (1911), in the same locality evidently. *Melvill.*

Antirrhinum majus, *L.*
IV. Old wall at Bayston Hill, perhaps planted originallly *Melvill.*

Mimulus Langsdorffii, *Donn.* [= **luteus**, *L.*]
VI. Aston-on-Clun. *Johnson.*
VIII. A variety occurred in the well-known station, Carding Mill Valley, in August, 1911, in which the cauline leaves were all much smaller, viz. ¼in., and the flowers of unusual size and brilliancy of colour. This was probably due to the record summer heat and sunshine. *Melvill.*

Euphrasia scotica, *Wettst.*
VIII. Occurred again in August in the bog, Carding Mill Valley, where it was first found in 1905, but specimens were very small and dwarfed, for the same reason, probably, as given under **Mimulus**. *Melvill.*

Mentha rotundifolia, *Huds.*
XIII. Bridgnorth. *Druce.*

M. longifolia, *Huds.* [=**sylvestris**, *L.*]
XII. Linley Dingle. *Druce.*

Salvia Verbenaca, *L.*
XIII. Rocks below Bridgnorth Castle. *Druce.*

Nepeta Cutaria, *L.*
XIII. With the preceding. *Druce.*

Stachys officinalis, *Trev.* [=**Betonica**, *Benth*].
IX. Cwm Head, Wistanstow. *Johnson.*

Leonurus Cardiaca, *L.*
XIII. Near Bridgnorth. *Druce.*

Lamium Galeobdolon, *Crantz.*
IX. Stokesay Wood. *Melvill.*
XIII. Badger Dingle. *Duncan.*

L. maculatum, *L.*
XII. Oldbury. *Druce.*

Teucrium Chamaedrys, *L.*
XIII. Quatford. teste *Druce.*

Chenopodium Bonus-Henricus, *L.*
VI. Lydbury North. *Johnson.*

Urtica urens, *Linn.*
IV. Bomere. *Heath.*

Butomus umbellatus, *Linn.*
XI. Riverside between Atcham and Wroxeter. *Heath.*

Sagittaria sagittifolia,
XI. Riverside between Atcham and Wroxeter. *Heath.*

Neottia Nidus, *Avis.*
IX. Ragleth Wood, Church Stretton. *Heath.*

Listera ovata, *Br.*
IV. Between Bayston Hill and Condover, not known before in this neighbourhood. *Forrest.*

Epipogum aphyllum, *Sw.*
I have examined the single specimen of this, the rarest of British Orchids, as collected by Mr. G. Claridge Druce himself, in the locality near Ludlow, just on the confines of Salop and Hereford, but undoubtedly within the former county. It was gathered in 1892, and is a fine specimen. *Melvill.*

Habenaria virescens, *Druce.* [=**chloroleuca**, *Ridley.*[
IX. Again gathered by me in Stoke Wood, June, 1911, and recorded as being nearly 2 feet in altitude. Flowers unusually large and sweet-scented. Again, doubtless the past summer caused the extra development. *Melvill.*

Allium ursinum, *L.*
VIII. Along the banks of Condover Brook below Smethcote Dingle. *G. E. Johnson.*

Paris quadrifolia, *L.*
IX. Stoke Wood, Stokesay. *Melvill.*

Carex elata. *All.* [=**stricta**, *Good.*]
IV. Rea Brook, Shrewsbury. coll. *Butler*, fide *Druce.*

C. pendula. *Huds.*
XII. Caughley Wood. coll. *C E Palmer*, fide *Druce.*

Deschampsia flexuosa, *Trin.*
XII. With the preceding. *C. E. Palmer*, fide *Druce.*

D. setacea, *Richt.* [=**discolor**, *R. & S.*]
II. Ellesmere. 1894. *F. A. Bellamy.* teste *Druce.*

MOSSES.

The following records of Mosses and Hepaticæ have been kindly furnished by Mr. J. B. Duncan.

Polytrichum urnigerum, *L.*
XII. Hastings Coppice, Wyre Forest.

Funaria ericetorum. *Dixon.*
XII. Wyre Forest.

Eurhynchium crassinervium, *B. & S.*
XIII. Badger Dingle.

E. murale, *Milde.*
XIII. Badger Dingle.

Plagiothecium elegans, *Sull.*
XIII. Badger Dingle.

P. sylvaticum, *B & S.*
XIII. Badger Dingle

Amblystegium filicinum, *De Not.*
var. **trichodes**, *Brid.*
XIII. Badger Dingle.

A. filicinum, *De Not.*
var. **Vallisclausae**, *Dixon.*
XII. Coppice Gate near Buttonbridge.

Hypnum palustre, *Huds.*
XIII. Badger Dingle.

HEPATICÆ.

Conocephalum conicum (*L.*) *Dum.*
XIII. Badger Dingle.

Metzgeria furcata (*L.*) *Dum.*
XIII. Badger Dingle.

Marsupella emarginata (*Ehrh.*) *Dum.*
XII. Wyre Forest.

Lophozia turbinata (*Raddi.*) *Steph.*
XIII. Badger Dingle.

Aplozia pumila (*With.*) *Dum.*
XII. Hastings Coppice, Wyre Forest.

Plagiochila asplenioides (*L.*) *Dum.*
XIII. Badger Dingle.

Diplophyllum albicans (*L.*) *Dum.*
XIII. Badger Dingle.

Scapania undulata (*L.*) *Dum.*
XII. Hastings Coppice, Wyre Forest.

S. curta (*Mart.*) *Dum.*
XII. Wyre Forest.
XIII. Nr. Hampton Loade; nr. Highley.

ZOOLOGY.

The spring immigration of birds in 1911 presented many anomalies. Many species were decidedly late in arriving—the Chiffchaff, for example, coming with the Willow Wren instead of three weeks earlier, whilst its numbers were far below normal. Similar remarks apply to the Sand Martin, Wood Wren, Blackcap, and Common Sandpiper. This last species usually keeps passing up the Severn in ones and twos throughout the spring, but so few were noted this year that we may infer that they migrated northwards by some other route. On the other hand, Nightingales came in unprecedented numbers to their usual haunts in the lower Severn Valley, besides which odd birds and pairs penetrated to outlying places where they had been previously unheard of. The Sedge Warbler, though late in arriving, came in full numbers.

Late as most migrants were in arriving, they did not make up their ordinary length of sojourn here by lingering late into the autumn; on the contrary almost all left rather earlier than usual—the Swift quite early in August—scarcely any laggards being noted, and very few late nests. The prolonged drought seemed to have a deterrent effect on the breeding of birds as a whole, especially with species which are double-brooded; in 1911 they nested only once.

Amongst the rarer species noted was a pair of Cranes which alighted near Longden in the evening of May 6th and left next morning. There is a suspicion, however, that they had escaped from Woburn Park, and were not truly wild.

An immature White-tailed Eagle was seen at Wellington, and a Little Owl obtained at Peplow in December. Hooded Crows visited North Shropshire in some numbers during the winter months, and a Great Grey Shrike was obtained near Oswestry. A Grey Phalarope was found near Shrewsbury in October, and a Little Auk near Stretton at Christmas. A pair of Wrynecks took up their quarters at Ludlow—a very unusual locality—and probably nested there.

Many interesting records have been received from North Wales of which the following are noteworthy:—Golden Oriole and Hoopoe seen in Merioneth; Pied Flycatcher at Menai Bridge—new record for Anglesey; Black Tern and Fork-tailed Petrel obtained near Newtown—both new records for Montgomeryshire; Black Redstart and Black-throated Diver observed at Llandudno in 1910 and 1911—both new records for Carnarvonshire; Great Snipe obtained in Flintshire; Long-tailed Duck in Anglesey; Glaucous Gull at Deganwy; and four Goosanders seen in Merioneth.

Among the vertebrates other than birds, the most noteworthy are a Lesser Rorqual cast ashore at Aberystwyth—the first ever known on the Welsh coast; a Shagreen Ray trawled off Anglesey—new to the fauna of North Wales; and the Palmate Newt found at Church Stretton—a new locality for Shropshire.

The finding of young Dormice in June is noteworthy, as hereabouts they are not generally met with till autumn.

Albino and other colour varieties are mentioned under the heads of Badger, Rat, Thrush, Blackbird, Sparrow, and Starling.

H. E. FORREST.

MAMMALS.

Vesperugo noctula (Noctule). *Elliott.* Oct. 9th and 11th. Several on wing. Dowles. *Forrest.* Sept. Two seen at Rhyl; new locality. *Ruddy.* March 30th—Dec. 30th. On the wing, Llangollen; very late date—weather mild.

Sorex araneus (Common Shrew). *Horton.* July 7th. Nest with eight young in disused bee-hive, Wenlock.

Neomys fodiens (Water Shrew). *Horton.* Aug. 16th. One found at Wenlock, far from any water.

Mustela martes (Pine Marten). "*Holyhead Mail.*" Feb. 22nd. One trapped near Trefriw.

Meles meles (Badger). *Ruddy.* November. Three caught, Llanidloes, Montgomeryshire—one of them cinnamon colour.

Halichœrus gryphus (Grey Seal). *R. W. Jones.* Jan. 21st. One seen in sea off the Great Orme's Head. *Forrest.* April 28th. Young one caught while asleep on sandbank at Barmouth; sent to the Zoological Gardens, London, where it now is. It was in the whitish 'puppy' coat and appears to have been born much later in the year than usual.

Balænoptera rostrata (Lesser Rorqual). "*Field,*" *Oct. 7th.* Sept. 22nd. One came ashore, Aberystwyth. It measured 28 feet, and was much decomposed. New record for Wales.

Mus decumanus (Brown Rat). *Buckle.* October 6th. Young albino found dead on road near Leaton Knolls, Shrewsbury.

Muscardinus avellanarius (Dormouse). *Elliott.* June 11th Young a few days old in garden, Dowles Manor; early date.

Lepus cuniculus (Rabbit). *Elliott.* February 4th. Nest of young about a week old at Dowles.

BIRDS.

Turdus musicus (Song Thrush). *Mountford.* March 11th. Nest, one egg at Todleth. *Sankey.* Buff-coloured one resident Boreatton Park. *Forrest & Others.* Singing freely through December; weather mild.

T. pilaris (Fieldfare). *Elliott.* April 9th Large flock passing over Dowles. *Forrest.* Oct. 27th. First seen Bayston Hill. *Ruddy.* Nov. 22nd. Llangollen. *Potts.* Oct. 9th. Few, Benthall; large flock on 13th.

T. iliacus (Redwing). *Potts.* Oct. 10th. Small flock, Benthall. *Huxley.* 21st. First heard, Shrewsbury. *Ruddy.* Nov. 12th. Llangollen.

T. merula (Blackbird). *Smith.* Jan. 23rd. Ironbridge, in full song *Mountford.* Mar. 15th. Nest, one egg, Churchstoke. *F. L. Rawlings.* A pale fawn-coloured one reared Gresford, Denbighshire. *H. Beaman.* Oct. Pied one frequenting garden on Swan Hill, Shrewsbury.

Saxicola œnanthe (Wheatear). *Cooke.* April 14th. Male shot, Betton. *Forrest.* 25th. Market Drayton.

Pratincola rubetra (Whinchat). *Elliott.* April 29th. Dowles; Sept. 15th, one feeding on elder berries. *Buckle.* May 15th. Ensdon.

P. rubicola (Stonechat). *Forrest.* Sept. 3rd. Male seen, Rhyl.

Ruticilla phœnicurus (Redstart). *Elliott.* April 22nd. Several, Dowles. *Potts.* 23rd. Two, Benthall; 26th Madeley and (*Tatton*) Petton. *Huxley.* May 11th. Montford Bridge. *King,* May 10th. Numerous at Aber; single Male Menai Bridge, Anglesey.

R. titys (Black Redstart). *R. W. Jones.* Nov. 23rd. Female on Great Orme's Head; another in same place, Dec. 27th, 1910. (Cf. *British Birds,* Dec., 1911).

Daulias luscinia (Nightingale). *Potts.* April 30th, Benthall; May 7th, Numbers about Coalport, Linley, and Broseley. *Oswestry Advertizer.* May. Two singing in Candy Valley, Oswestry. *Forrest.* One at Yockleton; another at Red Hill and two at Betton, near Shrewsbury. *La Touche.* Pair at Wistanstow, reared brood. *Rev. W. Leeke.* Two singing, Plowden. *Potts.* May 12th. Heard twelve between Coalport and Benthall; numbers this year unprecedented. *Capt. H. G. Wayne.* One at Chetton, Bridgnorth. *F. C. Duggan.* One at Marbury, Whitchurch. One reported near Newport. *Field.* 9th July, 1910. One recorded near Aberystwyth and another at Tregar; both localities in Cardiganshire far to the N.W. of any known haunt.

Erithacus rubecula (Robin). *Mountford.* March 19th. Nest 1 egg, Churchstoke. *Forrest.* Two nests near Shrewsbury in May, each containing clutches of white eggs.

Sylvia cinerea (Whitethroat). *Elliott.* April 26th – Sept. 4th. Dowles. *Potts.* April 29th. Benthall. *Forrest.* May 4th. Several; next day and subsequently abundant round Shrewsbury. *Lang.* 4th. Ludlow.

S. curruca (Lesser Whitethroat). *Elliott.* May 2nd. Dowles.

S. atricapilla (Blackcap). *Elliott.* April 23rd. Dowles. *Hodges.* 24th. Ellesmere *Potts.* 24th. Coalport; three fighting on 26th. *Tatton.* 26th. Petton. *Forrest.* Fewer than usual this year. *Lang.* May 11th. Ludlow.

S. hortensis (Garden Warbler). *Potts.* April 30th. Benthall. *Elliott.* May 1st – Aug. 23rd. Dowles. *Meares.* May 23rd. Nest 2 eggs, Clive; increasing. *Lang.* 11th. Ludlow.

Phylloscopus rufus (Chiffchaff). *Hodges.* April 4th. Ellesmere; snow same day. *Tatton.* 10th. Several, Petton. *Elliott.* 10th and 11th. One at Dowles; several 13th; last Sept. 29th. *Potts.* April 12th. Coalport. *Lang.* Ludlow, and *Mountford,* Churchstoke. *Harries.* 13th. Betton and *Horton.* Wenlock. *Potts.* 18th. Willey and (*Johnson*), Bicton. *Potts.* 19th. Coalport. *Forrest.* 20th. First heard Bomere, very late. *Potts.* 21st. Several, Benthall. *Forrest.* 27th. Meole and Longner. *Potts.* Oct. 5th. One singing, Benthall.

P. trochilus (Willow Wren). *Potts.* April 14th. Jackfield. *Forrest.* 16th. Bayston Hill, and (*Davies*), Sutton. *Potts and Forrest.* 19th. Coalport and Bayston Hill; several 21st and numerous 22nd everywhere. *Forrest.* Early in August one re-commenced song after summer silence.

P. sibilatrix (Wood Wren). *Potts.* April 26th. Ironbridge. *Forrest.* Much below usual numbers this year about Shrewsbury. *Lang.* May 10th. Ludlow.

Acrocephalus phragmitis (Sedge Warbler). *Lang.* May 10th Ludlow. *Meares.* 21st. Nest building, Crosemere. *Huxley.* 11th. Several Montford Bridge. *Potts.* 12th. One, Coalport. *Forrest.* 14th. Two, Bayston Hill, and many by 21st. *Elliott.* 22nd. Dowles, very late.

A. streperus (Reed Warbler). *Attlee.* August. One heard near Harlech; feel sure of identity, though the species not known to occur there.

Locustella nœvia (Grasshopper Warbler). *Potts.* April 30th. Benthall; and May 3rd. *King.* Pair nested by Llyn-y-parc, Beaumaris, Anglesey.

Cinclus aquaticus (Dipper). *Elliott.* April 9th. Nest in pollard willow. Dowles; May 9th, another in similar position.

Motacilla rali (Ray's Wagtail). *Bulstrode.* April 21st. Shrewsbury. *Davies.* 25th. *Elliott.* Sept. 16th. Dowles.

M. melanope (Grey Wagtail). *Ruddy.* Dec. 12th. Llangollen.

M. lugubris (Pied Wagtail). *King.* April 20th. Albino with sparrows on shore at Cemaes, Anglesey.

Anthus trivialis (Tree Pipit). *Potts.* April 24th. Number, Broseley and Coalport. *Tatton.* 26th. Petton. *Elliott.* April 22nd—Aug. 25th. Dowles. *Hodges.* April 28th. Ellesmere.

Oriolus galbula (Golden Oriole). *G. H. Caton Haigh.* July 31st, 1909. One seen Aberia, Penrhyndeudraeth, Merioneth.

Lanius excubitor (Great Grey Shrike). *R. Roberts.* March 24th. One killed Penybontfawr.

L. collurio (Red-backed Shrike). *Elliott.* May 10th. Dowles. *Davies.* 7th. Sutton, Shrewsbury. *Ruddy.* 10th. Llangollen. *Lang.* 15th. Ludlow.

Muscicapa grisola (Spotted Flycatcher). *Mountford.* April 23rd. Churchstoke. *Potts.* May 7th. Five or Six, Broseley. *Elliott.* 11th. Dowles; increase 18th. *Lang.* 14th. Ludlow. *Smith.* 21st—Aug. 29th. Ironbridge.

M. atricapilla (Pied Flycatcher). *F. H. Mills.* Early summer, 1910, Male in Cadnant Wood, Menai Bridge; new record for Anglesey.

Hirundo rustica (Swallow). *Hodges.* April 6th. Ellesmere; six degrees of frost. *Goodwin.* 16th. One at nesting-place, Ufflngtonton, and (*Davies*) Sutton. *Johnson & Others.* 17th. Shelton, Wenlock, Harley and the Longmynd. *Horton.* 19th. Flock on telegraph wires, Cressage, *Potts & Others.* 20th. Small parties flying

northwards Coalport, Broseley, Bayston; pair settled Betton Pool. *E. Parry.* 23rd. Lyth Hill. *Forrest.* 28th. Bayston and one going N. next evening; several next three days. *Elliott.* Nov. 12th. Immature, Dowles (see *Zoologist*) Oct. 12th. Over 100 Swallows and Martins, Dowles. *Pitt.* Nov. 11th. One near Bridgnorth. *Hodges.* 9th and 10th. One at Ellesmere.

Chelidon urbica (House Martin). *Smith.* April 7th. Three passing over Ironbridge. *Forrest.* 22nd. Several Meole; 23rd one passing N. in evening. 29th. One at Meole and two Cruck Meole (*Furley*). *Lang.* 26th. Ludlow. *Forrest.* May 1st. Several, Meole. *Elliott.* May 1st. One, Dowles. *Davies.* April 30th. Sutton. *Major Templer.* Sept. 23rd. Buff-coloured one seen in the Quarry, Shrewsbury. *Forrest.* Nov. 10th. One, Shrewsbury.

Cotile riparia (Sand Martin). *Meares.* May 23rd. Two nests at Condover, each containing six eggs. *Forrest.* Steadily diminishing in numbers about Shrewsbury. *Davies, Johnson & Others*; remarkably few. *Elliott.* July 6th—Sept. 20th. Dowles. *Goodwin.* Sept. 28th. Two near Uffington. *F. Gladstone.* Aug. 5th. Immense assembly on osiers along bank of Severn opposite Melverley.

Coccothraustes vulgaris (Hawfinch). *F. H. Mills.* Regular winter visitor to Bangor. *Ruddy.* Feb. 2nd. Llangollen.

Carduelis spinus (Siskin). *Oswestry Advertiser, Aug. 4th.* Brood reared a few years ago near top of racecourse, Oswestry. *Ruddy.* Dec. 12th. Flock, Llangollen.

Fringilla cœlebs (Chaffinch). *Forrest.* Several nests built early in April but no egg laid till 26th. *Tatton.* An albino, reared in the park, has frequented Petton for months. *Franklin.* Dec. 31st. Flock estimated at 500 on field and hedgerow near Shrewsbury; moving restlessly about.

F. montifringilla (Brambling). *R. Roberts.* Jan. 1st. About 200 at Penybont, near Oswestry. *Elliott.* Oct. 11th. Heard Dowles.

Linota rufescens (Lesser Redpole). *Meares.* May 21st. Nest building Myddle; 24th, nest 5 eggs in apple tree, Clive. *Etches.* Party in garden at Whitchurch through second week of October. *Ruddy.* April 15th. Llangollen.

Acanthis flavirostris (Twite). *Ruddy.* Nov. 10th. Flock, Llangollen.

Passer domesticus (Sparrow). *Forrest.* July 27th. Albino captured by Mr. A. E. Hughes, Wynnstay Hotel, Llanfair Caereinion.

Loxia curvirostra (Crossbill). *Elliott.* July 18th. Five; Aug. 19th, seven; Oct 7th and Dec. 30th, six, at Dowles. *Tatton.* July 7th. Flock of over thirty, Petton Park in spruce woods; stayed some days; Nov. 23rd, five seen there. *Lang.* April 22nd. About twenty, Ludlow; seem settled here; seen from time to time.

Sturnus vulgaris (Starling). *Mountford.* March 25th. Nest, 4 eggs, Churchstoke. *R. J. L. Price in the 'Field.'* Sept. 26th. White one with flock of ordinary ones at Rhiwlas, Bala.

Corvus frugilegus (Rook). *Mountford.* March 1st. One seen carrying small bird, Churchstoke. *Smith.* At Ironbridge, building began Feb. 17th and continued till April 25th; first young heard April 10th; all but one nest flown by June 19th. Rooks all away from rookery July 1st.

C. cornix (Hooded Crow). '*Oswestry Advertizer*,' *Aug. 2nd.* One on keeper's gibbet, near Oswestry. *A. Groom.* Flock of about ten, Halston for three months in winter of 1910-11. *Buckle.* Nov. 21st. Four, Acton Reynold. *Humphreys.* Nov. 25th. One shot near Oswestry.

C. corax (Raven). *Ruddy.* Nov. 25th. Four together, Llangollen.

Cypselus apus (Swift). *Lang.* April 26th. Ludlow. *Bulstrode.* 27th. One at Longner, and another at Cruck Meole (*E. Furley*). *Hodges.* 29th. Ellesmere; left Aug. 12th. *Elliott.* May 1st—Aug. 28th. Dowles. *Humphreys.* April 25th and 28th. Whittington. *Rev. R. Steavenson.* 28th. Six at Wroxeter. *Potts.* 30th. Two, Benthall. *Forrest.* May 3rd to 7th. Several about Shrewsbury, full numbers on 8th; bulk left 10th, 11th August; single birds 15th and 27th. *J. M. Etches.* Sept. 3rd, One, Whitchurch. *Potts.* August 20th. Two, Benthall. *Smith.* Aug. 3rd. All left Ironbridge.

Caprimulgus europæus (Nightjar). *Buckle.* May 12th. Grinshill. *Elliott.* August 19th. Last heard churring. *Forrest.* Sept. 16th to 30th. One took up quarters in Mr. F. L. Rawlins' garden at Rhyl; basked all day on top of wooden bee-hive. *Ruddy.* May 9th. Llangollen.

Iynx torquilla (Wryneck). *Elliott.* April 24th—Aug. 24th. Dowles. *Potts.* May 8th. One calling, Broseley. *Lang.* May 23rd. One seen Ludlow; July 23rd, one caught in trap, its mate calling piteousley while in trap; liberated unhurt. *Forrest.* Oct 7th. One pursued by other birds and caught by a boy at Myddle; died next day from injury to head; a late date and unusual locality.

Dendrocopus major (Greater Spotted Woodpecker). *Ruddy.* May 6th —8th. Llangollen.

D. minor (Lesser Spotted Woodpecker). *Ruddy.* May 8th. Seen by Sir H. B. Robertson, at Palè.

Upupa epops (Hoopoe). *Wm. Beattie.* Aug. 7th. One seen in the Happy Valley, Aberdovey; in August, 1909, another seen at Astley Abbots, near Bridgnorth.

Cuculus canorus (Cuckoo). *Potts.* April 17th and 19th. Broseley, two on 21st and one on 22nd. *Bulstrode* 23rd. The Isle. *Tatton*, 25th. Petton. *Elliott.* 22nd. Dowles; three together next day. *Forrest.* 29th. Grinshill, and May 1st, Bayston Hill. *Tatton.* April 24th. Whixall. *Horton and Lang.* 25th. Wenlock and Ludlow. *Davies.* 29th. Sutton. *Elliott.* June 12th. Three nests of Pied Wagtail at Dowles contained respectively 2 young and 1 egg of Cuckoo. *Forrest.* May 12th. One calling at midnight; apparently departed very early, no adults lingering into August. *Hodges.* April 29th. Ellesmere.

Athene noctua (Little Owl). *Stanier.* Dec. 28th. Two flushed, one killed at Petton; the latter preserved for his collection at Peplow Hall.

Buteo vulgaris (Buzzard). *J. M. Etches.* Sept. 3rd. Two seen soaring, Hawkstone. *Tatton.* Dec. 1st. One seen, Petton.

Haliaëtus albicilla (White-tailed Eagle). *G. H. Paddock.* April 2nd. Immature bird seen, Wellington.

Ardea cinerea (Heron). *Sir Rowland Corbet.* August. Fifteen seen at one time at a sheltered pond in Acton Reynold Park.

Phalacrocorax carbo (Cormorant). *Hodges.* Two on White Mere in December.

Bernicla leucopsis (Bernacle Goose). *F. H. Mills.* Nov. 27th. One seen on bog at Llanerchymedd, Anglesey.

Tadorna cornuta (Sheld-duck). *Forrest.* April 2nd. Three on Betton Pool.

Spatula clypeata (Shoveler). *King.* April 1st. Two pairs on Llyn Bodgolched, Beaumaris; May 17th, one pair had eleven young, the other six.

Harelda glacialis (Long-tailed Duck). *A. Geoffrey Leigh.* Nov. 23rd. Immature male shot, Malldraeth Bay; second authentic record for Anglesey. "*Field.*" Early in December, female shot in Margam Marches, Glamorganshire; drake also seen.

Mergus merganser (Goosander). *King.* March 25th. Four on Ogwen Lake, one a drake *C. H. Wells* in "British Birds." Dec. 25th. Male on same lake; pair on 27th.

Columba palumbus (Wood Pigeon). *Mountford.* March 1st. Nest 2 eggs, Snead. *Johnson.* Aug. 25th. Nest with young and another with eggs, both old Magpie nests adopted. *Humphreys.* Dec. 2nd. Flock of about 2,000 near Oswestry. *Forrest.* Similar flock at Bomere a few days later; came each day to feed on acorns in the woods, but roosted in Condover Park. *Potts.* Nov. 7th. First flock of migrants seen Benthall. Dec. 21st, heard cooing at Munslow by Rev. E. Powell, and at Christmas in the Quarry, Shrewsbury, by Mr. T. Huxley.

C. œnas (Stock Dove). *Forrest.* September. Nesting.

Turtur communis (Turtle Dove). *Hodges.* April 26th. Ellesmere. *Horton.* May 2nd. Wenlock. *Huxley.* 14th. Shelton. *Forrest.* 21st. Several, Bomere. *Elliott.* May 11th—Sept. 26th. Dowles. *Potts.* May 14th. Hampton Loade.

Tetrao tetrix (Black Grouse). *Forrest.* June 22nd. Brood of newly hatched young on top of Stiperstones.

Coturnix communis (Quail). *Cooke.* Sept. One shot near Cressage.

Crex pratensis (Cornerake). *Mugford.* April 14th. Pulley *Lang.* 27th. Ludlow. *Davies.* 29th. Copthorne. *Tatton.* May 1st. Baschurch. *Bagley.* 2nd. Shrewsbury. *Goodwin.* 4th. Preston Boats and Wenlock (*Potts*); 7th, one, Broseley; 12th, several. *Forrest.* 11th. Two, Llangollen. *Elliott.* 9th. Dowles. *Sir Rowland Corbet and others.* Scarce this year and diminishing.

Porzana maruetta (Spotted Crake). *F. H. Mills.* 1910. One shot in Penheskyn Bog, Penmynedd, near Menai Bridge, Anglesey.

Grus communis (sp ?) (Crane). *Forrest.* May 6th. Two Cranes alighted at 7-30 p.m. in field on Longden Common, and grazed for an hour. Seen by a man named Carswell and his two sons, and a neighbour named Corfield. Next morning the birds after flying in circles till they attained a great height, flew away eastwards. It is suggested that they were White-necked Cranes from Woburn Park, Beds.

Charadrius pluvialis (Golden Plover). *Forrest.* Nov. 21st. One killed against telegraph wires, Shrewsbury; several heard next day. *Ruddy.* March 31st. Llangollen. *Hodges.* Large flock about Hordley in autumn.

Vanellus cristatus (Peewit). *Mountford.* March 28th. One egg, Mellington. *Davies.* May., Egg with white ground-colour; another immature egg about size of Blackbird's—both near Shrewsbury. *Forrest.* May 21st. Newly hatched young.

Phalaropus fulicarius (Grey Phalarope). *Cooke.* October 3rd. Adult male obtained Merrington, near Shrewsbury.

Gallinago major (Great Snipe). *Graham C. Heasman* in the '*Field.*' Sept. 23rd. One weighing 7½ oz. shot at Holt, Flintshire.

Tringa alpina (Dunlin). *R. Roberts.* April 26th. One found, Hirnant Moor, near Oswestry. Second record for Montgomeryshire.

T. minuta (Little Stint). *Attlee.* August 24th. Small wader, probably this species, Mochras.

T. subarquata (Curlew Sandpiper). *Attlee.* August 17th and 30th. One at Mochras.

T. striata (Purple Sandpiper). *King.* Feb. 8th. One, Penmon Point, Anglesey. *Attlee.* August 20th and 30th. One at Mochras, Merioneth.

T. canutus (Knot). *Attlee.* August 17th to 30th. A few, Mochras, Merioneth.

Calidris arenaria (Sanderling). *Attlee.* August 30th. Eleven on Traeth Bach, Merioneth.

Totanus hypoleucus (Common Sandpiper). *Lang* and *C. M. Nixson.* April 18th. Knighton and Ludlow. *Johnson.* 20th. Severn above Shrewsbury, and 28th. The Isle. *Meares.* May 23rd. Nest 4 eggs, chipping, Condover. *Elliott.* August 15th. Dowles.

T. ochropus (Green Sandpiper). *Bowcock.* August 6th—15th. One flushed at same spot, near Wem on three consecutive visits. *Forrest.* Nov. 23rd. One flushed in Snipe-bog at Bayston.

T. calidris (Redshank). *Elliott.* Oct. 8th. Flying down Severn, Bewdley. *D. G. Goodwin.* June 9th. Two, Uffington.

Limosa lapponicus (Bar-tailed Godwit). *Attlee.* August 24th. One on Traeth Bach, Merioneth.

Numenius arquata (Curlew). *D. G. Goodwin.* Throughout summer and autumn several haunted vicinity of Upton Magna; probably nested near the brickyard.

Hydrochelidon nigra (Black Tern). "*B.O.C. Migration Report,*" April 16th, 1910. One shot, Newtown. New record for Montgomeryshire.

Sterna fluviatilis (Common Tern). *Forrest.* April 23rd. One flying about over Severn, Preston Boats. *Cooke* September 18th. One at Montford Bridge *Hodges.* April 15th Three on Ellesmere.

S. minuta (Lesser Tern). *Attlee.* August 24th. Two on Traeth Bach, Merioneth; rather late date.

Larus minutus (Little Gull). "*Birmingham Daily Mail,*" *December 16th.* Dec. 2nd. One obtained Norton Canes Pool, near Walsall.

L. ridibundus (Black-headed Gull). *Mountford.* April 7th. Flock at Churchstoke. *Ruddy.* March 28th. Llangollen.

L. canus (Common Gull). *Ingrams.* April 4th. Two on Severn, Kingsland Bridge, Shrewsbury for several hours.

L. argentatus (Herring Gull). *Forrest.* April 16th. Three flying N. Betton. *Potts.* May 26th. One flying N., Benthall; July 25th. several going S. *Ruddy.* April 3rd. Llangollen. *Hodges.* April 6th. One Ellesmere.

L. fuscus (Lesser Black-backed Gull). *Davies.* April 14th. One flying N.W. Sutton. *Ruddy.* March 21st. Llangollen.

L. glaucus (Glaucous Gull). *A. Hamilton.* Feb. 23rd. Immature shot Deganwy; sent to Chester Museum.

Rissa tridactyla (Kittiwake). *Cooke.* November. One found dead at Montford Bridge; Immature, Llanymynech.

Mergulus alle (Little Auk). *Forrest.* Dec. 26th. One found dead but warm on Hatton Farm, near Marsh Brook; sent to me later by Rev. E. Powell, Munslow.

Colymbus arcticus (Black-throated Diver). *R. W. Jones.* April 30th. One observed N. of the Great Orme's Head.

Podicipes cristatus (Great Crested Grebe). *Forrest.* Again nested on Bomere.

Oceanodroma leucorrhoa (Leach's Petrel). *Cooke.* Oct. 8th. Male found Newtown; first obtained in Montgomeryshire.

Puffinus anglorum (Manx Shearwater). *J. W. Griffiths.* Sept., 1910. One caught alive by canal, Welshpool.

Reptiles and Amphibians.

Molge palmata (Palmated Newt). *Forrest.* May. Numbers found breeding in a pond in Carding Mill Valley, Church Stretton—quite a new locality for Shropshire.

Fishes.

Salmo fario (Trout). *Forrest.* June. One 4lbs. 6oz. and another over 6lbs. taken below the Weir, Shrewsbury.

Abramis brama (Bream). *Forrest.* June. One 7lbs. netted below the Weir, Shrewsbury. July 4th. Another same weight caught by lady angler.

Rhombus maximus (Turbot). *Oswestry Advertizer.* June 15th. One weighing 35lbs. caught off Pwllheli.

Raia fullonica (Shagreen Ray). *Dr. J. Travis Jenkins.* Feb. 15th. Male taken in the 'Fisheries' trawl off Point Lynas, Anglesey, in about 23 fathoms. New record for North Wales.

Acipenser sturio (Sturgeon). *Oswestry Advertizer.* June 21st. One 45lbs. caught off Pwllelli and sent to the King.

METEOROLOGY.

JANUARY.—

A remarkably mild month. Snow about the 13th, but only a light covering. The Barometer was, with one or two exceptions, very high during the month An unusual winter drought set in on the 24th lasting till February 10th; Fog on 19th and 20th; Birds were singing on 22nd. It was the third in order of the driest months of the year.

FEBRUARY.—

The first days were the coldest of the year. The high atmospheric pressure of last month continued till the middle of February, after this the mercury in barometers rose and fell rapidly; on Barographs a very erratic line was traced. Owing to these disturbances of pressure the weather became at the close of the month wild and stormy, our islands coming under Cyclonic influences from the N. There were gales on 19th from S.W. and on 22nd from W. and N.W. The end of the month was wet.

MARCH.—

The earlier part of this month was more changeable than the last part owing to several Cyclonic systems touching our islands. February closed with N. Easterly winds which gave the impression of low temperature so piercing were they. Snow recorded on 9th. 12th, 13th, 15th, 23rd, but of no considerable depth.

APRIL.—

Bitter weather was experienced on the opening days, the 5th being especially cold. The temperature was only 38·5 at Wistanstow; snow fell this day. The first half of the month the Barometer showed high readings, but though the last half was marked by much variation, the weather was most seasonable and exceedingly pleasant. There was a fine show of blossom. The first Swallow was seen and the Cuckoo heard at Wistanstow on the 21st. A drought set in on the 1st, lasting 17 days. There were few showers. Fine sunny weather at Easter.

MAY.—

The May of 1912 was one which we often sing and read of but very seldom experience; it was indeed a month of grand weather, warm, dry, plenty of sunshine and beautiful bloom on the trees. May blossom was out and the May fly was seen on the 17th, both these appearances being generally reserved for June. The Corncrake was heard on the 13th, and Swifts seen on the 6th. A good deal of thunder was heard this month—10th, 11th, 17th, 26th, 28th. There was an absolute drought from the 4th lasting 22 days Day temperatures were high, only one Cyclone, on 13th, travelled over our islands.

JUNE.—

Two periods divided this month: it was quiet till the 15th but afterwards disturbed conditions prevailed. On the 1st there was a severe thunderstorm; also on 17th when animals and buildings were struck by lightning. From the 17th our islands came under the influence of a cyclone that travelled from Newfoundland to the Irish coast, passed up to the Hebrides and then down to Norfolk arriving there on the 24th, when it left and passed up the West of Norway. It brought very welcome rain with it.

JULY.—

Hot, dry and bright. From the 1st a drought set in of 28 days; practically the only rain during the month fell during a thunderstorm on the 29th. In the South and West of England this day was marked by an extraordinary sudden "line" squall, bringing with it, in certain districts, dust, smoke, and pitchy darkness. At Falmouth the wind suddenly rose from 0 to 61 miles an hour and then went back to zero!

AUGUST.—

"The heat of this month was without precedent in the records of the country," Met. Office Report. At station (21) 96° was recorded on the 9th, 91° on the 14th, 90° on the 8th 12th, and 13th. There was very little rain; a heavy thunderstorm on the 21st.

SEPTEMBER.—

Until the 9th the unusually high temperature continued; sportsmen experienced an exceedingly warm time. The 8th was a very hot day, 85° was recorded at station No. 13. A clear spell of 12 days without rain gave excellent opportunity for harvesting operations.

OCTOBER.—

On the 19th the long drought of 1911, which with comparatively few breaks had lasted for four months, came to an end. For the remainder of the month unsettled conditions with rain obtained, and continued much the same until the close of the year. There was a dry sharp sudden frost on the 29th, and a gale on the 30th.

NOVEMBER.—

A very disturbed month with gales from the S.W. during the first half. Many disturbing cyclonic systems passed over us. The abundant rain was most welcome as the springs were nearly all dry. The barometer gave very low readings on the 18th. The weather was mild for the time of year. The 9th was the wettest day, when snow was seen for the first time; a thunderstorm also occurred the same day.

DECEMBER.—

This proved to be the most unsettled and wettest month of the whole year. The trace of our Barograph showed many fluctuations in the atmospheric pressure; beginning with the 2nd, as many as 14 were shown until the pen became steady on the 27th. All through this period rain was of daily occurrence, 24 and 25 days days of wet being generally recorded The temperature was mild, and on the 28th it was quite warm; on the 30th the birds were singing. The last day of the year was much cooler and the weather was quite fine.

W. M. D. LATOUCHE.

REMARKS ON THE WHOLE YEAR.

The winter months, both at the beginning and end of the year, were mild; the mercury never approached zero, so there was no skating. Late frosts in April injured stone-fruit blossom. Though snow was frequently seen, no considerable depth lay on the ground at any time. No violent storms doing excessive damage passed over us The year will chiefly be remembered for the long, dry, hot summer, and for the many periods of drought which happened in the winter as well as during the summer season. As a consequence the supply of water failed in many districts and the want of it was severely felt.

Agricultural and Horticultural operations were greatly hindered, the grass crop being light, "keep" became scanty. Round Shrewsbury the fields presented a burnt up and parched appearance. South Shropshire fared better owing to its more hilly construction. The corn crops were not much affected, but gardens and orchards suffered badly. The stone-fruit crop, for the reason stated above, failed, as also did celery and cauliflowers, whilst vegetables were much infested by insects.

Pears did well and so did apples which were well coloured, though, it was noticed that perhaps because they ripened so quickly, the flavour was not so good as usual. Strawberries were an average crop, but the Raspberry season was soon over. The Apples in many places were small in size.

W. M. D. LATOUCHE.

TABLE No. 1.

NAMES OF OBSERVERS AND STATIONS.

NO.	ALTITUDE.	STATION.	OBSERVER.	LATITUDE. ° ′ ″	LONGITUDE. ° ′ ″
(1)	894	Burwarton Hall ...	The Hon. F. G. Hamilton Russell, per Mr. Leonard Morris ...	52 27 30	2 34 0
(2)	800	Woolstaston ...	Mr. E. D. Carr, per Mr. W. Bowden ...	52 35 45	2 48 30
(3)	720	Bishop's Castle ...	E Griffiths, Esq. ...	52 30 0	3 0 0
(4)	700	Wallop Hall, Westbury ...	Mrs Severne ...	52 39 40	3 0 50
(5)	700	Preen Manor ...	Per Mr. Jno. Hopkins ...	52 34 30	2 40 20
(6)	700	Totterton, Lydbury North ...	W. H Whitaker, Esq. ...	52 28 50	2 56 20
(7)	698	Mount Reservoir, Oswestry ...	G. W. Lacey, Esq., C.E ...	52 48 0	3 3 0
(8)	662	Walcot, Lydbury North ...	E. Parry, Esq. ...	52 26 47	2 57 47
(9)	650	Church Stretton ...	Geo. Dunn, Esq. ...	52 32 10	2 48 10
(10)	600	More Rectory ...	Rev. Ridley Relton ...	52 30 50	2 58 10
(11)	596	Bishop's Castle ..	Rev. C. E. Warner ...	52 29 20	2 59 50
(12)	582	Church Stretton ...	E. J. Marsh, Esq. ...	52 30 49	2 49 33
(13)	565	Hopesay Rectory, Aston-on-Clun ..	Rev. R. J. Roberts ...	52 26 30	2 54 0
(14)	502	Bitterley Rectory ...	Rev. J. R. Burton ...	52 10 50	2 38 30
(15)	497	Clunbury Vicarage ...	Rev. W. G. Clarke Maxwell ...	52 25 8	2 55 30
(16)	492	Willey Park, Broseley ...	The Lord Forester ...	52 35 15	2 29 30
(17)	480	Wistanstow Rectory ...	Rev. W. M. D La Touche ...	52 27 52	2 50 4

TABLE No. 1—(continued).

NO.	ALTITUDE.	STATION.	OBSERVER	LATITUDE. ° ′ ″	LONGITUDE. ° ′ ″
(18)	460	Coton Hall, Bridgnorth ...	E. M. Wakeman, Esq. ...	52 28 20	2 20 0
(19)	432	Onibury ...	Mr. J. Francis ...	52 24 0	2 38 50
(20)	430	Aldenham Park, Bridgnorth ...	Mr. Thomas Canning ...	52 33 10	2 29 10
(21)	355	Haughton Hall, Shifnal ..	W. J. Brooke, Esq. ...	52 40 15	2 22 40
(22)	351	Knighton Reservoir, Wellington ..	G. R. Jebb, Esq., C.E. ...	52 51 0	2 22 0
(23)	340	The Grange, Ellesmere ...	Mrs. A. M Ashton ..	52 54 40	2 53 40
(24)	320	Bromfield ...	F. Brayshaw, Esq. ...	52 23 10	2 45 40
(25)	315	Ashford House ...	W. D. Hall, Esq. ...	52 20 0	2 42 45
(26)	310	Oakley Park, Bromfield ...	The Earl of Plymouth, per Mr. Thos. Reason ...	52 22 50	2 45 20
(27)	290	Cantreyn, Bridgnorth ...	Mr. W. Bayliss ...	52 32 30	2 25 40
(28)	280	Neachley, Shifnal ...	Col. Hon. F. C. Bridgeman ...	52 39 30	2 19 40
(29)	280	Aston Hall, Newport ...	Col. R. Leeke ...	52 45 30	2 24 10
(30)	279	The Schools, Shifnal ...	Mr. F. W. Haswell ...	52 40 11	2 31 30
(31)	276	Buntingsdale, Market Drayton ...	Mrs. Tayleur ...	53 53 15	2 30 35
(32)	273	Hookfield House. Bridgnorth ...	Rev. Prebendary F. Burd ..	52 32 5	2 25 40
(33)	271	Fenn's Bank, Whitchurch ...	W. Snowden, Esq , C.E ...	52 56 30	2 45 0
(34)	262	Hatton Grange, Shifnal ...	Mr. Geo. Risebrow ...	52 37 55	2 20 50
(35)	261	Edgmond ...	J. Bodenham, Esq. ...	52 46 40	2 24 50

TABLE No. 1—(continued).

NO.	ALTITUDE.	STATION.	OBSERVER	LATITUDE. ° ′ ″	LONGITUDE. ° ′ ″
(36)	253	Fitz Manor	Major J. F. Horner	52 45 22	2 48 55
(37)	250	Highfield, Shrewsbury	T. M. Howells, Esq.	52 42 20	2 44 20
(38)	250	Chetwynd Park	Mr. N. Sherwood	52 47 20	2 23 20
(39)	240	Newport, Chetwynd	Mrs. Burton Borough	52 46 0	2 22 40
(40)	238	Fitz Rectory	Rev. W. Brewster	52 45 20	2 49 10
(41)	220	Harper Adams College, Newport	P. Hedworth Foulkes, Esq.	52 46 40	2 23 30
(42)	212	Ordnance Off., Shrewsbury	Capt. C. S. Reid, R. E.	52 42 21	2 44 22
(43)	208	Royal Meteor. Society, Roden	J. W. Nowell, Esq.	52 44 30	2 37 40
(44)	171	Abbey House, Shrewsbury	Miss J. H. Rouse Boughton	52 42 18	2 44 30

TABLE No. 2.

MONTHLY RAINFALL RECORD.

		JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(1)	Burwarton	·62	1·27	2·13	1·11	1·15	2·34	·22	2·42	1·63	1·94	3·23	5·97	24·03
(2)	Woolstaston ...	·61	2·44	1·82	1·78	1·20	2·98	·51	1·58	2·14	3·25	4·12	5·80	28·23
(3)	Bishop's Castle ...	·58	1·55	1·82	1·16	·91	2·49	1·08	1·37	2·24	2·76	3·13	5·47	24·56
(4)	Wallop Hall ...	·54	2·28	1·68	1·24	1·21	3·81	·96	2·80	3·81	4·07	4·24	5·43	32·07
(5)	Preen Manor ...	·55	1·85	1·72	1·27	1·19	2·44	·42	1·66	1·93	2·77	3·63	5·58	25·01
(6)	Totterton ...	·46	1·74	1·23	1·06	·49	3·57	·92	1·59	2·30	2·38	3·41	4·75	23·90
(7)	Oswestry ...	·83	2·06	1·29	·80	·99	2·38	·78	3·37	2·85	3·91	3·66	4·97	27·89
(8)	Lydbury North ...	·69	1·85	1·44	1·20	1·17	2·32	1·07	1·64	2·02	2·86	3·51	6·74	26·51
(9)	More Rectory ...	·63	1·77	1·52	1·17	·81	2·82	1·09	1·38	2·56	2·74	3·48	6·25	26·22
(10)	Bishop's Castle Vic. ...	·68	2·02	1·85	1·29	·94	2·55	1·15	1·64	2·36	3·07	3·54	6·35	27·44
(11)	Church Stretton ...	·62	1·93	1·84	1·49	1·70	3 08	1·01	1·36	2·15	2·72	4·68	6·66	29·24
(12)	Hopesay Rectory ...	·76	1·88	1·72	·97	1·35	2·46	·70	1·64	2·21	2·19	4·01	6·80	26·69
(13)	Bitterley ...											2·98	6·52	
(14)	Clunbury Vic. ...	·85	1·67	1·55	1·40	1·21	2·34	·94	1·64	2·27	2·52	4·03	7·55	27·97
(15)	Willey Park ...	·49	1·24	1·46	·81	·81	3·21	·41	2·96	1·97	1·95	2·91	5·54	23·76
(16)	Wistanstow ...	·54	1·71	1·65	1·10	1·78	2·16	·83	1·00	2·40	2·32	4·21	7·32	27·02
(17)	Aldenham Park ...	·58	·43	1·45	1·02	·83	3·16	·22	3·32	1·44	1·45	2·62	4·81	21·33
(18)	Coton Hall, Bridgnorth	·82	1·59	1·72	·78	·79	2·40	·21	1·81	1·50	2·05	2·85	5·93	22·45

TABLE No. 2—(continued).

		JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(19)	Onibury ...	·55	1·87	1·50	1·27	1·85	2·59	·47	1·37	1·74	2·06	3·87	7·14	26·28
(20)	Haughton Hall ...	·42	1·71	1·42	·81	1·07	2·61	·20	1·69	1·80	2·07	2·12	4·72	20·64
(21)	Knighton (Salop) ...	·60	1·81	1·35	·99	·87	2·87	·46	1·95	1·89	2·70	3·02	4·38	22·89
(22)	Ellesmere ...	·60	1·49	1·29	·67	·93	2·64	·31	2·54	2·65	2·87	3·22	3·70	22·91
(23)	Ashford House ...	1·15	2·07	1·82	1·31	2·76	3·73	·60	1·59	1·89	2·04	3·59	6·88	29·43
(24)	Bromfield ...	·73	1·72	1·57	1·35	1·79	2·76	·72	1·63	1·88	2·38	3·58	7·53	27·64
(25)	Oakley Park ...	·71	1·78	1·63	1·29	1·63	2·42	·69	1·52	1·93	2·01	3·35	6·41	25·37
(26)	Bridgnorth, Cantreyn	·58	1·64	1·63	·86	·83	2·26	·41	2·19	1·45	1·94	3·15	5·34	22·28
(27)	Aston Hall ...	·53	1·47	1·44	·86	·68	2·65	·33	1·98	1·58	2·08	2·94	4·61	21·15
(28)	Neachley, Shifnal ...	·61	1·62	1·39	·84	·65	2·39	·27	1·69	1·44	1·74	2·97	4·67	20·28
(29)	Shifnal School ...	·61	1·54	1·44	·75	·80	3·54	·26	1·67	1·80	2·12	3·09	4·69	22·31
(30)	Market Drayton, Buntingsdale ...	·60	1·67	1·60	·70	·92	2·40	·37	1·97	2·23	2·70	2·63	4·53	22·32
(31)	Bridgnorth, Hookfield House ...	·58	1·41	1·62	·65	·75	2·10	·21	2·20	1·48	1·76	2·85	5·10	20·71
(32)	Whitchurch ...	·65	1·31	1·39	·58	·89	2·24	·68	2·32	2·10	2·97	2·37	3·60	21·10
(33)	Hatton Grange ...	·55	1·51	1·27	·75	·49	2·52	·47	1·26	1·55	1·87	2·53	4·68	19·45
(34)	Edgmond ...	·48	1·42	1·39	·79	·75	2·15	·29	2·09	1·77	2·08	2·83	4·22	20·26
(35)	Fitz Manor ...	·54	1·19	1·35	·50	·72	2·45	·62	1·38	1·98	2·78	2·40	3·23	19·14
(36)	Shrewsbury, Highfield	·45	1·23	1·32	·63	1·18	1·76	·28	1·56	1·91	2·65	2·59	3·26	18·82

TABLE No. 2—(continued).

		JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(37)	Chetwynd Park ...	·48	1·45	1.55	·95	·66	2·34	·41	2·50	1·66	2·31	2·58	4·10	20·99
(38)	Chetwynd ...	·47	1·61	1·50	·96	·66	2·35	·41	2·42	1·59	2·31	2·74	4·16	21·18
(39)	Har. Ad. Coll., Newport	·34	1·28	1·23	·76	·55	2·10	·23	1·94	1·69	2·11	2·52	3·69	18·44
(40)	Fitz Rectory ...	·56	1·32	1·36	·59	·72	2·41	·66	1·39	2 01	2 72	2·32	3·03	19·09
(41)	Roden ...	·24	1·31	1·29	·44	·78	1·77	·20	1·55	1·74	2·86	2·29	3·22	17·69
(42)	Ordnance, Shrewsbury	·34	1·04	1·24	·49	·96	1·91	·37	1·48	1·73	2 45	2·36	3·00	17 37
(43)	Abbey House, Shrewsbury	·37	1·51	1·35	·59	·98	2·03	·42	1·74	1·95	2·71	2·73	3·48	19·86
	MEANS	·58	1·60	1·52	·95	1·03	2·56	·54	1·90	1·99	2·45	3 14	5 13	**23·37**

TABLE No. 3.

GREATEST RAINFALL IN 24 HOURS, WITH DATES.

	Jan.	Day.	Feb.	Day.	Mar.	Day.	April	Day.	May.	Day.	June.	Day.	July.	Day.	Aug.	Day.	Sept.	Day.	Oct.	Day.	Nov.	Day.	Dec.	Day.
(1) Burwarton ...	·24	7	·27	24	·50	13	·22	29	·40	4	1·00	18	·11	30	1·20	22	·51	13	·32	20	·78	10	·75	15
(2) Woolstaston ...	·15		·43		·38		·34		·45		·88		·39		·58		·74		·58		·77		·61	
(3) Bishop's Castle ...	·18	6	·38	13	·30	12	·35	18	·41	3	·76	17	1·00	29	·50	27	·80	13	·51	21	·35	12	·70	14
(4) Westbury ...	·18	8	·43	21	·48	12	·23	18	·55	31	1·39	24	·32	29	1·09	27	1·50	12	·67	29	·71	12	·51	10
(5) Preen	·15	11	·37	18	·35	12	·23	26	·58	3	·71	17	·17	2	·53	21	·58	12	·60	19	·97	9	·51	17
(6) Totterton	·10	12	·46	18	·30		·19		·40		1·05		·79		·52		·79		·44		·51		·65	
(7) Oswestry	·26	6	·38	23	·29	12	·14	18	·57	3	·84	17	·46	29	1·05	20	1·30	12	·84	29	·47	11	·53	22
(11) Bishop's Castle ...	·22	11	·49	18	·21	27	·38	18	·45	3	·87	17	1·04	29	·50	27	·80	12	·53	26	·40	12	·77	14
(12) Church Stretton ...	·14	6	·36	18	·34	12	·27	18	·46	3	·97	17	·92	29	·45	27	·70	12	·65	21	1·26	9	·72	14
(13) Hopesay	·24	5	·44	18	·31	12	·31	18	·56	3	1·08	17	·70	29	·48	1	·74	12	·58	21	·81	9	·75	14
(15) Clunbury	·33	5	·43	18	·25	12	·37	18	·53	3	·86	17	·86	29	·38	1	·65	12	·64	21	·66	9	·82	17
(16) Broseley	·12		·23		·38		·20		·44		1·25		·24		1·90		·68		·35		·64		·64	
(17) Wistanstow ...	·27	4	·42	18	·32	12	·29	18	·61	26	·72	17	·80	29	·33	27	·85	12	·63	21	·97	9	·76	17
(18) Bridgnorth ...	·21	6	·25	18, 23	·40	12	·13	26	·62	3	·57	19	·15	29	·37	27	·33	23	·35	19, 24	·58	9	·82	14
(19) Onibury	·19		·52		·31		·29		·82		·97		·29		·48		·62		·37		·95		·88	
(21) Shifnal	·13	11	·35	18	·45	12	·26	25	·43	3	·99	17	·18	29	·70	21	·47	12	·30	22	·31	7	·60	14
(22) Knighton ...	·18	5	·29	21	·40	12	·22	28	·48	3	1·11	24	·24	29	·64	27	·45	12	·55	19	·40	9	·50	8
(23) Ellesmere ...	·32	7	·34	23	·30	12	·15	18	·46	3	·95	24	·13	29	·90	27	1·40	12	·57	28	·80	11	·50	8

TABLE No. 3—(continued).

	Jan.	Day.	Feb.	Day.	Mar.	Day.	April.	Day.	May.	Day.	June.	Day.	July.	Day.	Aug.	Day.	Sept.	Day.	Oct.	Day.	Nov.	Day.	Dec.	Day.
(24) Bromfield	·20	5	·33	18	·29	12	·27	29	·85	26	1·13	17	·43	29	·64	21	·68	12	·32	26	·80	9	·88	41
(25) Ashford	·24	5	·37	18	·31	12	·30	26	1·27	26	1·81	17	·47	29	·33	21	·46	12	·32	29	·57	11	·81	17
(26) Bromfield	·26	6	·35	18	·29	12	·26	28	·74	26	1·11	17	·44	29	·61	21	·74	12	·27	19	·66	9	·68	14
(27) Bridgnorth ...	·17	5	·29	21	·38	12	·15	28	·45	3	·81	17	·18	29	1·18	21	·49	12	·32	22	·68	9	·60	14
(28) Shifnal	·14	8	·36	27	·47	12	·22	25	·37	3	·68	17	·10	29	·62	21	·43	12	·28	6	·63	9	·57	14
(29) Newport	·18	6	·24	27	·52	12	·19	26	·37	3	·79	24	·09	1, 29	·55	27	·42	12	·32	19, 22	·76	9	·59	8
(30) Shifnal	·14	8, 11	·30	18	·45	12	·14	28	·36	3	1·23	17	·19	29	·50	27	·47	12	·32	22	·92	9	·57	14
(31) Market Drayton ...	.14		·23		·35		·15		·44		·98		·12		·96		·36		·57		·39		·47	
(32) Bridgnorth ...	·17	5	·28	21, 12	·35	12	·16	26	·43	3	·83	17	·14	29	1·15	21	·49	12	·45	24	·65	9	·65	14
(33) Whitchurch ...	.20	5	·30	26	·35	12	·15	19	·42	3	1.07	24	·35	29	·90	27	1·10	12	·50	20	·43	11	·50	22
(35) Edgmond ...	·15	6	·26	18	·51	12	·19	26	·34	3	·78	24	·12	1	·82	27	·40	9	·36	22	·76	9	·50	8, 14
(36) Fitz	·14	8	·20	26	·34	12	·12	18	·30	3	·90	24	·35	29	·74	27	·91	12	·54	22	·43	11	·22	26
(37) Shrewsbury ...	·18	11	·24	18	·36	12	·11	18, 26	·42	17	·75	24	·22	29	·56	27	·69	12	·49	19	·52	9	·35	14
(38) Newport	·15	6	·28	27	·47	12	·18	25	·33	3	·86	24	·18	1	·83	27	·39	12	·45	22	·68	9	·47	8
(39) Chetwynd ...	·15	6	·28	27	·47	12	·24	26, 28	·33	4	·84	24	·20	1	·83	27	·38	12, 19	·45	22	·65	9	·46	8
(40) Fitz	·15	8	·25	18	·36	12	·13	18	·35	3	·98	24	·39	29	·78	27	·95	12	·46	22	·41	11	·40	22
(41) Harper Adams ...	·13		·22		·44		·21		·30		·79		·13		·73		·44		·45		·66		·42	
(42) Shrewsbury ...	·12	11	·21	18	·34	12	·11	26	·34	26	·71	24	·32	29	·54	27	·64	12	·44	22	·42	9	·33	14
(43) Roden	·09	11	·33	18	·38	12	·14	25	·26	26	·70	24	·20	29	·25	5	·53	12	·62	19	·53	9	·46	13
(44) Shrewsbury ...	·12	11	·45	18	·35	12	·12	26	·34	26	·74	24	·33	29	·55	27	·64	12	·48	27	·47	9	·36	14

TABLE No. 4.

RAINY DAYS.

Rainy day means a day on which at least ·01 of rain fell.

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(1) Burwarton ...	6	12	18	12	8	11	4	10	10	17	20	25	153
(2) Woolstaston ...	9	15	20	13	9	10	5	11	11	17	24	25	169
(3) Bishop's Castle ...	10	15	18	11	4	14	2	12	10	15	22	25	158
(4) Westbury ...	9	16	19	13	10	14	7	13	10	18	25	28	182
(5) Preen ...	7	14	18	15	9	13	6	10	10	18	22	24	166
(6) Totterton ...	9	15	15	17	5	14	8	13	15	16	25	27	179
(7) Oswestry ...	8	17	19	17	10	15	11	14	14	19	20	27	191
(11) Bishop's Castle ...	13	16	20	16	5	15	5	14	13	20	24	28	189
(12) Church Stretton	11	17	21	19	8	13	8	14	13	18	23	26	191
(13) Hopesay ...	8	15	16	14	6	11	1	11	10	16	27	28	163
(15) Clunbury ...	10	14	18	11	5	13	5	13	15	10	20	24	158
(16) Broseley ...	6	14	16	11	7	11	4	10	11	17	22	24	153
(17) Wistanstow ...	8	14	18	10	5	12	3	9	12	14	20	24	149
(18) Bridgnorth ...	13	13	14	12	4	11	2	13	10	14	21	25	152
(19) Onibury ...	6	11	10	10	5	8	5	9	8	12	20	24	128
(20) Bridgnorth ...	9	11	17	9	8	12	3	13	10	10	25	23	150
(21) Shifnal ...	5	12	14	10	7	11	2	11	10	12	17	24	135
(22) Knighton, Shrop.	5	14	15	10	5	11	5	13	11	15	21	22	147

TABLE No. 4—(continued).

	JAN.	FEB.	MAR.	APL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
(23) Ellesmere ...	6	13	18	12	7	14	6	11	13	18	17	24	159
(24) Bromfield ...	12	16	22	13	8	13	6	14	16	16	25	28	189
(25) Ashford ...	12	17	22	13	9	12	4	13	14	16	22	28	182
(26) Bromfield ...	12	16	21	13	9	13	5	11	16	19	23	27	185
(27) Bridgnorth ...	8	12	16	12	9	10	6	11	10	18	22	25	159
(28) Shifnal ...	8	13	15	9	8	11	4	11	13	16	24	26	158
(29) Newport ...	7	15	17	9	9	11	6	12	13	18	23	26	166
(30) Shifnal ...	6	13	15	9	7	12	5	11	11	15	23	24	151
(32) Bridgnorth ...	8	11	15	10	7	9	3	12	11	15	21	24	146
(33) Whitchurch ...	7	13	16	11	6	10	8	10	8	13	14	23	139
(34) Shifnal ...	10	15	23	14	7	12	10	11	12	19	23	26	182
(35) Edgmond ...	11	16	18	10	9	10	8	12	11	19	23	26	173
(36) Fitz ...	10	14	20	15	10	11	5	12	15	19	23	26	180
(37) Shrewsbury ...	6	12	14	10	7	11	5	12	12	18	20	21	148
(38) Newport ...	8	16	19	11	10	10	7	13	14	18	22	27	175
(39) Chetwynd ...	9	16	17	11	10	10	7	12	15	18	22	27	174
(40) Fitz ...	8	13	18	11	10	11	5	12	16	18	22	24	168
(41) Harper Adams ...	4	14	14	9	6	10	4	11	11	16	21	24	144
(42) Shrewsbury ...	6	14	16	10	8	10	4	11	13	16	19	21	148
(43) Roden ...	3	11	11	10	5	12	1	13	10	17	19	21	133
(44) Shrewsbury ...	7	14	16	10	7	12	5	12	15	18	22	25	163
AVERAGE ...	8	14	17	11·8	7	11·6	5	11·8	1·16	16·3	21·7	25	162·4

TABLE No. 5.

Highest and Lowest Temperatures in each month.

		Jan.		Feb.		Mar.		Apl.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.	
		H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
(1)	Burwarton	56	20	57	14	57	26	67	24	81	33	83	39	84	42	88	46	81	39	60	29	52	28	51	28
(2)	Woolstaston	49	17	52	15	49	22	62	17	70	31	75	31	84	35	85	40	86	29	60	23	54	30	49	31
(4)	Westbury	49	20	50	15	55	26	64	25	78	31	84	31	90	35	90	41	89	32	62	25	53	25	51	23
(9)	Church Stretton	51	24	50	18	55	30	66	27	89	36	86	36	90	42	93	43	86	36	62	32	55	30	52	28
(13)	Hopesay	50	25	53	16	53	26	63	27	76	34	81	33	89	39	90	40	85	31	60	24	55	27	50	21
(16)	Broseley	54	27	55	18	56	27	64	26	75	34	85	35	90	42	94	44	89	36	62	26	55	27	51	26
(17)	Wistanstow	53	24	54	17	57	29	65	27	75	35	79	35	88	42	90	40	92	34	65	30	57	29	52	26
(26)	Bromfield	52	25	53	15	52	26	61	25	76	35	82	34	90	37	91	37	87	30	62	23	56	27	56	27
(27)	Bridgnorth	56	11	56	17	57	25	66	23	84	31	90	30	97	36	98	38	93	32	64	20	55	24	50	24
(28)	Shifnal	52	24	55	13	57	21	61	26	80	32	89	32	89	36	92	34	84	30	61	24	56	25	51	27
(30)	Shifnal	53	22	55	14	58	28	61	23	78	32	82	32	90	36	95	36	90	22	65	23	57	26	51	26
(37)	Shrewsbury	*53	23	*55	14	59	28	66	26	78	41	84	34	91	39	94	42	90	37	64	24	57	26	53	27
(38)	Newport	53	25	55	13	57	28	61	25	76	31	83	31	89	37	92	40	85	34	60	24	57	25	53	25
(40)	Fitz	52	21	55	14	58	27	65	25	79	35	83	32	89	38	91	44	90	31	63	24	56	26	53	29
(41)	Harper Adams	54	25	56	15	56	29	62	25	76	33	81	31	88	36	92	41	88	30	61	26	57	26	53	16
(42)	Ord., Shrewsbury	55	21	56	16	58	30	65	27	78	36	82	33	89	38	93	43	89	33	64	25	59	28	53	28
(43)	R. Met., Roden	52	21	52	13	58	29	58	25	73	32	84	31	86	36	87	41	89	30	63	23	58	24	56	28
	Average	52	21	54	15	55	26	63	23	78	34	83	34	89	38	91	40	87	32	62	26	55	27	55	25

* Approximate.